

**IFWO** 

RAW SEQUENCE LISTING

DATE: 08/27/2004

PATENT APPLICATION: US/10/687,060

/10/687,060 TIME: 11:52:32

Input Set : N:\Crf3\RULE60\10687060.raw
Output Set: N:\CRF4\08272004\J687060.raw

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1 <110> APPLICANT: Bruck, Claudine
                      Godart, Stephane Andre Georges
                      Marc-Hand, Martine
  4 <120> TITLE OF INVENTION: Fusion Proteins Comprising HIV-1 TAT
  5
                       and/or Nef Proteins
  6 <130> FILE REFERENCE: B45110
  7 <140> CURRENT APPLICATION NUMBER: US/10/687,060
  8 <141> CURRENT FILING DATE: 2003-10-16
  9 <150> PRIOR APPLICATION NUMBER: US/09/509,239
10 <151> PRIOR FILING DATE: 2000-03-23
11 <150> PRIOR APPLICATION NUMBER: PCT/EP98/06040
12 <151> PRIOR FILING DATE: 1998-09-17
13 <150> PRIOR APPLICATION NUMBER: GB 9720585.0
14 <151> PRIOR FILING DATE: 1997-09-26
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#### RAW SEQUENCE LISTING

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DATE: 08/27/2004

Input Set: N:\Crf3\RULE60\10687060.raw
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                                                                                  120
59
          cgtggtgcta gcggttattt accagagcat acgttagaat ctaaagcact tgcttttgca
                                                                                  180
60
          caacaqqctq attatttaqa qcaaqattta qcaatqacta aqgatggtcg tttagtggtt
                                                                                  240
61
          attcacgatc actttttaga tggcttgact gatgttgcga aaaaattccc acatcgtcat
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62
          cqtaaagatg gccgttacta tgtcatcgac tttaccttaa aagaaattca aagtttagaa
                                                                                  360
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          Ala Gly Cys Ser Ser His Ser Ser Asn Met Ala Asn Thr Gln Met Lys
74
75
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                                           25
          Ser Asp Lys Ile Ile Ile Ala His Arg Gly Ala Ser Gly Tyr Leu Pro
76
77
                                       40
                                                           45
          Glu His Thr Leu Glu Ser Lys Ala Leu Ala Phe Ala Gln Gln Ala Asp
78
79
                                   55
          Tyr Leu Glu Gln Asp Leu Ala Met Thr Lys Asp Gly Arg Leu Val Val
80
                               70
                                                   75
81
          Ile His Asp His Phe Leu Asp Gly Leu Thr Asp Val Ala Lys Lys Phe
82
83
          Pro His Arg His Arg Lys Asp Gly Arg Tyr Tyr Val Ile Asp Phe Thr
84
                                           105
85
                      100
          Leu Lys Glu Ile Gln Ser Leu Glu Met Thr Glu Asn Phe Glu Thr Met
86
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                                                           125
87
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94 <213> ORGANISM: Pichia pastoris
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96
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          agacgagetg agccageage agatggggtg ggageageat etegagacet ggaaaaacat
                                                                                  180
          qqaqcaatca caagtagcaa tacagcagct accaatgctg cttgtgcctg gctagaagca
98
                                                                                  240
          caaqaqqaqq aqqaqgtqqq ttttccagtc acacctcagg tacctttaag accaatgact
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          tacaaggcag ctgtagatct tagccacttt ttaaaaagaaa aggggggact ggaagggcta
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100
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## RAW SEQUENCE LISTING DATE: 08/27/2004 PATENT APPLICATION: US/10/687,060 TIME: 11:52:32

Input Set: N:\Crf3\RULE60\10687060.raw
Output Set: N:\CRF4\08272004\J687060.raw

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           attcactccc aacqaaqaca agatatcctt gatctgtgga tctaccacac acaaggctac
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                                                                                   480
           tggtgctaca agctagtacc agttgagcca gataaggtag aagaggccaa taaaggagag
103
                                                                                   540
           aacaccagct tgttacaccc tgtgagcctg catggaatgg atgaccctga gagagaagtg
104
105
           ttaqaqtqqa ggtttgacaq ccgcctagca tttcatcacq tggcccgaga gctgcatccq
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           Ala Ser Arq Asp Leu Glu Lys His Gly Ala Ile Thr Ser Ser Asn Thr
117
118
119
           Ala Ala Thr Asn Ala Ala Cys Ala Trp Leu Glu Ala Gln Glu Glu Glu
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                                    55
121
           Glu Val Gly Phe Pro Val Thr Pro Gln Val Pro Leu Arg Pro Met Thr
122
                                70
                                                    75
           Tyr Lys Ala Ala Val Asp Leu Ser His Phe Leu Lys Glu Lys Gly Gly
123
124
                            85
                                                90
125
           Leu Glu Gly Leu Ile His Ser Gln Arg Arg Gln Asp Ile Leu Asp Leu
126
                       100
                                            105
           Trp Ile Tyr His Thr Gln Gly Tyr Phe Pro Asp Trp Gln Asn Tyr Thr
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                                        120
           Pro Gly Pro Gly Val Arg Tyr Pro Leu Thr Phe Gly Trp Cys Tyr Lys
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130
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131
                                                                         160
                                                    155
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           145
                                150
           Asn Thr Ser Leu Leu His Pro Val Ser Leu His Gly Met Asp Asp Pro
133
134
                                                170
           Glu Arg Glu Val Leu Glu Trp Arg Phe Asp Ser Arg Leu Ala Phe His
135
136
                                            185
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           aaagccttag gcatctccta tggcaggaag aagcggagac agcgacgaag acctcctcaa
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149
           ggcagtcaga ctcatcaagt ttctctatca aagcaaccca cctcccaatc ccgaggggac
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           ccgacaggcc cgaaggaaac tagtggccac catcaccatc accattaa
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151
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### **RAW SEQUENCE LISTING**PATENT APPLICATION: **US/10/687,060**DATE: 08/27/2004 TIME: 11:52:32

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Output Set: N:\CRF4\08272004\J687060.raw

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                                                                30
           His Cys Gln Val Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly
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163
                                        40
164
           Arg Lys Lys Arg Arg Gln Arg Arg Pro Pro Gln Gly Ser Gln Thr
165
166
           His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Arg Gly Asp
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           caagaggagg aggaggtggg ttttccagtc acacctcagg tacctttaag accaatgact
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           tacaaqqcaq ctgtagatct taqccacttt ttaaaagaaa aggggggact ggaagggcta
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           ttccctgatt ggcagaacta cacaccaggg ccaggggtca gatatccact gacctttgga
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           aacaccaget tgttacaccc tgtgageetg catggaatgg atgaccetga gagagaagtg
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           gagtacttca agaactgcac tagtgagcca gtagatccta gactagagcc ctggaagcat
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188
           tqccaaqttt qtttcataac aaaagcctta ggcatctcct atggcaggaa gaagcggaga
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           cagegacgaa gaceteetea aggeagteag acteateaag tttetetate aaageaacee
189
                                                                                   840
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Input Set : N:\Crf3\RULE60\10687060.raw
Output Set: N:\CRF4\08272004\J687060.raw

| 204        |       | 7.1 a      | 71-     | Thr   | 7 an       | 777               | NΊα   | Crr                  | 717   | Trn   | Tou    | C1., | 7.7. | dl n  | Clu      | C1.,      | C1,,           |            |     |
|------------|-------|------------|---------|-------|------------|-------------------|-------|----------------------|-------|-------|--------|------|------|-------|----------|-----------|----------------|------------|-----|
| 205        |       | Ala        | 50      | 1111  | ASII       | Ala               | Ата   | 55                   | ніа   | пр    | ьеи    | GIU  | 60   | GIII  | GIU      | Glu       | GIU            |            |     |
| 206        |       | Glu        |         | Glv   | Dhe        | Dro               | V=1   |                      | Dro   | Gln   | V-1    | Dro  |      | Λνα   | Dro      | Met       | Thr            |            |     |
| 207        |       | 65         | vai     | GIY   | File       | rio               | 70    | 1111                 | 110   | GIII  | vaı    | 75   | пец  | Arg   | FIO      | Mec       | 80             |            |     |
| 208        |       |            | Tare    | Δla   | Δla        | Val               |       | T.011                | Sar   | uic   | Dho    |      | Luc  | Clu   | Tarc     | Gly       |                |            |     |
| 209        |       | 171        | цуз     | AIG   | пта        | 85                | дар   | пец                  | Der   | 1112  | 90     | шец  | пуъ  | Giu   | пуъ      | 95        | GIY            |            |     |
| 210        |       | T.e.ii     | Glu     | Glv   | T.e.11     |                   | Hic   | Ser                  | Gln   | Δra   |        | Gln  | Δan  | Tlo   | Τ.Δ11    | Asp       | T.011          |            |     |
| 211        |       | шси        | Olu     | Ory   | 100        | 110               | 1115  | JCI                  | 0111  | 105   | nrg    | GIII | мър  | 116   | 110      | дад       | ыец            |            |     |
| 212        |       | Trn        | Tle     | Tur   |            | Thr               | Gln   | Glv                  | Tur   |       | Dro    | Aen  | Trn  | Gln   |          | Tyr       | Thr            |            |     |
| 213        |       | ırp        | 110     | 115   | 111.13     | 1111              | OIII  | OLY                  | 120   | LIIC  | 110    | чэр  | тър  | 125   | ASII     | ı yı      | 1111           |            |     |
| 214        |       | Pro        | Glv     | _     | Glv        | Val               | Ara   | Tvr                  | — -   | T.e.i | Thr    | Phe  | Glv  |       | Cvs      | Tyr       | Lvs            |            |     |
| 215        |       |            | 130     |       |            | ,                 | 9     | 135                  | 110   | 100   |        | 1110 | 140  | 110   | Cyb      | - 1 -     | цуб            |            |     |
| 216        |       | Leu        |         | Pro   | Val        | Glu               | Pro   |                      | Lvs   | Val   | Glu    | Glu  |      | Asn   | Lvs      | Gly       | Glu            |            |     |
| 217        |       | 145        | • • • • |       |            | 014               | 150   | тър                  | 275   |       | 014    | 155  | 1114 | 11011 | <b>-</b> | <b>01</b> | 160            |            |     |
| 218        |       |            | Thr     | Ser   | Leu        | T <sub>i</sub> eu |       | Pro                  | Val   | Ser   | T.e.11 |      | Glv  | Met   | Asp      | Asp       |                |            |     |
| 219        |       |            |         |       | <b></b> cu | 165               |       |                      | · u · | 501   | 170    | 1110 |      | 1100  | 1101     | 175       | 110            |            |     |
| 220        |       | Glu        | Ara     | Glu   | Val        |                   | Glu   | Trp                  | Ara   | Phe   |        | Ser  | Ara  | Leu   | Ala      | Phe       | His            |            |     |
| 221        |       |            | 5       |       | 180        |                   |       |                      | 5     | 185   |        |      | 3    |       | 190      |           |                |            |     |
| 222        |       | His        | Val     | Ala   |            | Glu               | Leu   | His                  | Pro   |       | Tvr    | Phe  | Lvs  | Asn   |          | Thr       | Ser            |            |     |
| 223        |       |            |         | 195   |            |                   |       |                      | 200   |       | 4      |      | 2    | 205   |          |           |                |            |     |
| 224        |       | Glu        | Pro     | Val   | Asp        | Pro               | Arq   | Leu                  | Glu   | Pro   | Trp    | Lys  | His  | Pro   | Gly      | Ser       | Gln            |            |     |
| 225        |       |            | 210     |       | -          |                   | J     | 215                  |       |       | -      | •    | 220  |       | •        |           |                |            |     |
| 226        |       | Pro        | Lys     | Thr   | Ala        | Cys               | Thr   | Asn                  | Cys   | Tyr   | Cys    | Lys  | Lys  | Cys   | Cys      | Phe       | His            |            |     |
| 227        |       | 225        |         |       |            | _                 | 230   |                      | _     | -     | -      | 235  | -    | -     | _        |           | 240            |            |     |
| 228        |       | Cys        | Gln     | Val   | Cys        | Phe               | Ile   | $\operatorname{Thr}$ | Lys   | Ala   | Leu    | Gly  | Ile  | Ser   | Tyr      | Gly       | Arg            |            |     |
| 229        |       |            |         |       |            | 245               |       |                      |       |       | 250    |      |      |       |          | 255       |                |            |     |
| 230        |       | Lys        | Lys     | Arg   | Arg        | Gln               | Arg   | Arg                  | Arg   | Pro   | Pro    | Gln  | Gly  | Ser   | Gln      | Thr       | His            |            |     |
| 231        |       |            |         |       | 260        |                   |       |                      |       | 265   |        |      |      |       | 270      |           |                |            |     |
| 232        |       | ${	t Gln}$ | Val     | Ser   | Leu        | Ser               | Lys   | Gln                  | Pro   | Thr   | Ser    | Gln  | Ser  | Arg   | Gly      | Asp       | Pro            |            |     |
| 233        |       |            |         | 275   |            |                   |       |                      | 280   |       |        |      |      | 285   |          |           |                |            |     |
| 234        |       | Thr        | -       | Pro   | Lys        | Glu               | Thr   | Ser                  | Gly   | His   | His    | His  | His  | His   | His      |           |                |            |     |
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|            | <212> |            |         |       |            |                   |       |                      |       |       |        |      |      |       |          |           |                |            |     |
|            | <213> |            |         |       | chia       | past              | coris | 3                    |       |       |        |      |      |       |          |           |                |            |     |
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| 243        |       |            |         |       |            |                   | _     |                      |       | _     |        | _    |      |       |          | _         | gctcac         |            | 20  |
| 244        |       |            |         |       |            |                   |       |                      |       |       |        |      |      |       |          |           | ttgca          |            | 30  |
| 245        |       |            |         |       |            |                   |       |                      |       |       |        |      |      |       |          |           | gtggtt         |            | 10  |
| 246        |       |            |         |       |            |                   |       |                      |       |       |        |      |      |       |          |           | gtcat          | 30         |     |
| 247<br>248 |       |            |         |       |            |                   |       |                      |       |       |        |      |      |       |          |           | tagaa          |            | 50  |
| 248        |       |            |         |       |            |                   |       |                      |       |       |        |      |      |       |          |           | gatgg          | 42         |     |
| 250        |       |            |         |       |            |                   |       |                      |       |       |        |      |      |       |          |           | gcagca         | 4.8<br>5.4 |     |
| 251        |       |            |         |       |            |                   |       |                      |       |       |        |      |      |       |          |           | atgct          | 60         |     |
| 251        |       |            |         |       |            |                   |       |                      |       |       |        |      |      |       |          |           | ctcag          |            |     |
| 253        |       |            |         |       |            |                   |       |                      |       |       |        |      |      |       |          |           | aagaa<br>tgtgg | 66<br>72   |     |
| 233        |       | aagg       | 1232    | jac i | -yyac      | ,9990             | .c ac |                      |       | Cac   | icyac  | igac | aaya | ical( | ا بان،   | -yall     | .cgcyy         | 12         | , U |

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/687,060
DATE: 08/27/2004
TIME: 11:52:33

Input Set: N:\Crf3\RULE60\10687060.raw
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